

QUALITY SYSTEM FORMAT

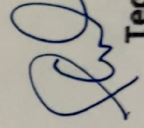
DETERMINATION OF BITUMEN CONTENT

Name of Client	Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore
Name of Contractor	Sri. Chidananda Murthy R.
Name of Consultants	Transheight Consultants Pvt. Ltd.
Project Name	Package No.4 (Consists of 3 Works)
Technical Reference	MORT&H Specifications for Roads and Bridge Works, 5 th Revision
Date of Testing	27/05/2023
Testing on	Bituminous Concrete (BC - Grade II) VG-30

DETERMINATION OF BITUMEN CONTENT AND GRADATION

Source of material:

Tests No's	5th cross NTI entrance opp to #84/A	5th cross NTI entrance opp to #134	8th main oppo to Sai baba oppo to temple	8th main Sai Baba Temple road oppo to #751
Wt. of Mix before extraction (g)	1059.00	932.00	1057.00	985.00
Wt. of Mix after extraction (g)	1001.00	882.00	1000.00	932.00
Wt. of Filter paper before extraction(g)	6	5	8	8
Wt. of Filter paper after extraction(g)	7	6	9	9
Wt. of asphalt & mineral matter extracted (g)	59.00	51.00	58.00	54.00
% binder content in mix	5.57%	5.47%	5.48%	5.48%
Binder content requirement as per estimate	5.40%			



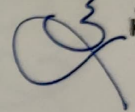
Transheight Consultants Pvt. Ltd., Bangalore
Technical Manager

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DETERMINATION OF BITUMEN CONTENT	
Name of Client	Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore
Name of Contractor	Sri. Chidananda Murthy R.
Name of Consultants	Transheight Consultants Pvt. Ltd.
Project Name	Package No.4 (Consists of 3 Works)
Technical Reference	MORT&H Specifications for Roads and Bridge Works, 5 th Revision
Date of Testing	27/05/2023
Testing on	Bituminous Concrete (BC - Grade II) VG-30

DETERMINATION OF BITUMEN CONTENT AND GRADATION

Source of material:

Tests No's	8th main road to Naryana school ,opp BW55B	8th main road to Naryana school ,to # 37	8th main road to Naryana school ,to # 135 (vidmahe enclave)	Ventkateshwara temple opposite
Wt. of Mix before extraction (g)	1108.00	1106.00	942.00	1125.00
Wt. of Mix after extraction (g)	1049.00	1045.50	892.00	1065.00
Wt. of Filter paper before extraction(g)	6	8	7	6
Wt. of Filter paper after extraction(g)	7	9	8	7
Wt. of asphalt & mineral matter extracted (g)	60.00	61.50	51.00	61.00
% binder content in mix	5.41%	5.56%	5.41%	5.42%
Binder content requirement as per estimate	5.40%			


Transheight Consultants Pvt. Ltd.,
Bangalore
Technical Manager

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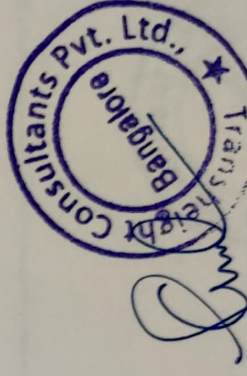
DETERMINATION OF BITUMEN CONTENT

Name of Client	Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore
Name of Contractor	Sri. Chidananda Murthy R.
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Project Name	Package No.4 (Consists of 3 Works)
Technical Reference	MORT&H Specifications for Roads and Bridge Works, 5 th Revision
Date of Testing	27/05/2025
Testing on	Bituminous Concrete (BC - Grade II) VG-30

DETERMINATION OF BITUMEN CONTENT AND GRADATION

Source of material:

Tests No's	Ventkateshwara temple road to #871/1	Ventkateshwara temple road to #898	Thindlu Govt Hospital opp to chicken shop	Thindlu Govt Hospital opp road to Nagamas house
Wt. of Mix before extraction (g)	967.00	958.00	977.00	1081.00
Wt. of Mix after extraction (g)	915.00	907.00	924.00	1023.00
Wt. of Filter paper before extraction(g)	8	6	4	8
Wt. of Filter paper after extraction(g)	9	7	5	9
Wt. of asphalt & mineral matter extracted (g)	53.00	52.00	54.00	59.00
% binder content in mix	5.48%	5.42%	5.52%	5.45%
Binder content requirement as per estimate	5.40%			



Technical Manager

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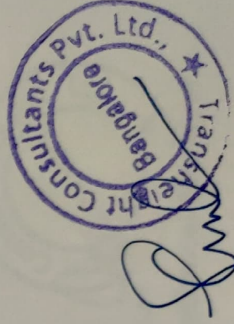
DETERMINATION OF BITUMEN CONTENT

Name of Client	Executive Engineer, Quality Control Division, Yelahanka Zone, BEMP Bangalore
Name of Contractor	Sri. Chidananda Murthy R.
Name of Consultants	Transheight Consultants Pvt. Ltd.
Project Name	Package No.4 (Consists of 3 Works)
Technical Reference	MORT&H Specifications for Roads and Bridge Works, 5 th Revision
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Testing on	Bituminous Concrete (BC - Grade II) VG-30

DETERMINATION OF BITUMEN CONTENT AND GRADATION

Source of material:

Tests No's	Thindlu Govt Hospital opp road to # 36	1st main Road Bk Layout opp to #177	1st main Road Bk Layout oppo to #212	Ananda layout opp to #114
Wt. of Mix before extraction (g)	930.00	990.00	959.00	1004.00
Wt. of Mix after extraction (g)	880.00	937.00	908.00	950.00
Wt. of Filter paper before extraction(g)	6	8	5	6
Wt. of Filter paper after extraction(g)	7	9	6	7
Wt. of asphalt & mineral matter extracted (g)	51.00	54.00	52.00	55.00
% binder content in mix	5.48%	5.45%	5.42%	5.47%
Binder content requirement as per estimate	5.40%			



Technical Manager

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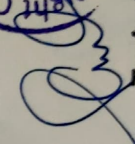
DETERMINATION OF BITUMEN CONTENT

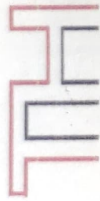
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Testing on	Bituminous Concrete (BC - Grade II) VG-30

DETERMINATION OF BITUMEN CONTENT AND GRADATION

Source of material:

Tests No's	Ananda layout opp to #16	Ananda layout opp to Srivari Building	Parvathama Layout opp to #4	Parvathama Layout opp to #87
Wt. of Mix before extraction (g)	976.00	987.00	988.00	1027.00
Wt. of Mix after extraction (g)	923.00	934.00	935.00	972.00
Wt. of Filter paper before extraction(g)	8	5	7	8
Wt. of Filter paper after extraction(g)	9	6	8	9
Wt. of asphalt & mineral matter extracted (g)	54.00	54.00	54.00	56.00
% binder content in mix	5.53%	5.47%	5.46%	5.45
Binder content requirement as per estimate	5.40%			


Transheight Consultants Pvt. Ltd., Bangalore
Technical Manager



TRANSHEIGHT
PAYING FUTURE

088869 13195
080236 29195
www.transheight.com
transheight.consultant@gmail.com

QUALITY SYSTEM FORMAT

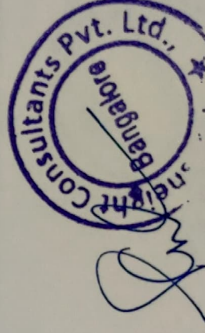
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Date of Testing	27/05/2023
Testing on	Bituminous Concrete (BC - Grade II) VG-30

DETERMINATION OF BITUMEN CONTENT AND GRADATION

Source of material:

Tests No's	Parvathama layout opp to #14	
Wt. of Mix before extraction (g)	930.00	
Wt. of Mix after extraction (g)	880.00	
Wt. of Filter paper before extraction(g)	8	
Wt. of Filter paper after extraction(g)	9	
Wt. of asphalt & mineral matter extracted (g)	51.00	
% binder content in mix	5.48%	
Binder content requirement as per estimate	5.40%	



Technical Manager

#1192, 'A'Block, 3rd Cross, 5th Main,
Sahakamagar, Bangalore-560092

NON-DESTRUCTIVE TEST REPORT REBOUND HAMMER TEST

INTRODUCTION

Name of work: Package No.4 (Package consists of 3 works)

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP

Contractor: Sri. Chidananda Murthy R.

Job Code : 009-23-000002

TEST CONDUCTED: To assess the surface hardness and estimate in-situ strength of surface concrete, the test was conducted using Rebound Hammer as per the guidelines of Indian Standards specification IS: 13311 – (Part II) – 1992 RA: 2018.

TABLE – 1

REBOUND HAMMER TEST RESULTS

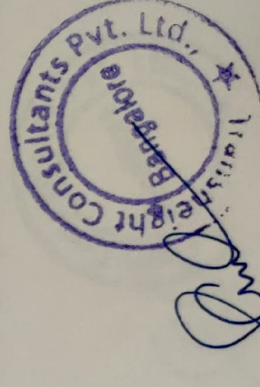
Site Location : Krishna Street Entrance 4th cross Anjaneya temple layout
Date of Test : 24.05.2023
Grade of Concrete : (M-20)
Technical Reference : IS: 13311 (Part II) – 1992 RA: 2018

Sl. No	Member Identification	REBOUND HAMMER TEST			Average rebound number	Probable Compressive Strength in N/mm ²
		(Horizontal) (0°) →	(vertical) (+90°) ↑	(vertical) (-90°) ↓		
1.	Culvert Slab – M20 grade			✓	26	24
2.				✓	25	
3.				✓	27	
4.				✓	28	
5.				✓	24	
6.				✓	26	

Average of 6 values

Note: The Rebound Hammer test gives Surface Strength

As per IS: 13311 (part-2): 1992 RA: 2018 clause 8.1, the estimation of strength of concrete by Rebound Hammer method cannot be held to be very accurate and probable accuracy of prediction of concrete strength in a structure is ± 25 percent.



Transheight Consultant Pvt Ltd

NON-DESTRUCTIVE TEST REPORT REBOUND HAMMER TEST

INTRODUCTION

Name of work: Package No.4 (Package consists of 3 works)

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP

Contractor: Sri. Chidananda Murthy R.

Job Code : 009-23-000002

TEST CONDUCTED: To assess the surface hardness and estimate in-situ strength of surface concrete, the test was conducted using Rebound Hammer as per the guidelines of Indian Standards specification IS: 13311 – (Part II) – 1992 RA: 2018.

TABLE - 2

REBOUND HAMMER TEST RESULTS

Site Location : Krishna Street Entrance 4th cross Anjaneya temple layout

Date of Test : 24.05.2023

Grade of Concrete : (M-20)

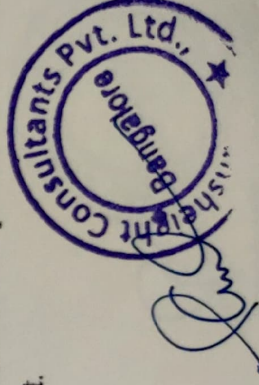
Technical Reference : IS: 13311 (Part II) – 1992 RA: 2018

Technical Reference : IS: 15311 (Part II) - 1992		REBOUND HAMMER TEST					Probable Compressive Strength in N/mm ²
SL. No	Member Identification	Position		Rebound Number	Average rebound number		
		(Horizontal) (0°) →	(vertical) (+90°) ↑			(vertical) (-90°) ↓	
1.	Pre -Cast Drain slab- M20 grade			✓	26	25	22
2.				✓	25		
3.				✓	24		
4.				✓	24		
5.				✓	25		
6.				✓	25		

Average of 6 values

Note: The Rebound Hammer test gives Surface Strength

As per IS: 13311 (part-2) : 1992 RA: 2018 clause 8.1, the estimation of strength of concrete by Rebound Hammer method cannot be held to be very accurate and probable accuracy of prediction of concrete strength in a structure is ± 25 percent.



Transheight Consultant Pvt Ltd

INTRODUCTION

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Contractor: Sri. Chidananda Murthy R.

Job Code : 009-23-000002

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TABLE - 1

REBOUND HAMMER TEST RESULTS

Site Location	: Krishna Street Entrance 4th cross Anjaneya temple layout
---------------	--

Date of Test : 24.05.2023

Grade of Concrete : (M-20)

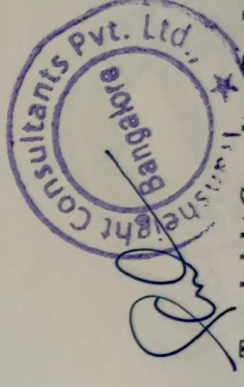
Technical Reference : IS: 13311 (Part II) – 1992 RA: 2018

SL. No.	Member Identification	REBOUND HAMMER TEST				Average rebound number	Probable Compressive Strength in N/mm^2
		Position			Rebound Number		
		{Horizontal} (0°) →	{vertical} (+90°) ↑	{vertical} (-90°) ↓			
1.	Drain Wall – M20 grade	✓			31	29.5	24
2.		✓			29		
3.		✓			27		
4.		✓			32		
5.		✓			28		
6.		✓			30		

Average of 6 values

Note: The Rebound Hammer test gives Surface Strength

As per IS: 13311 (part-2): 1992 RA: 2018 clause 8.1, the estimation of strength of concrete by Rebound Hammer method cannot be held to be very accurate and probable accuracy of prediction of concrete strength in a structure is ± 25 percent.



Transheight Consultant Pvt Ltd

NON-DESTRUCTIVE TEST REPORT REBOUND HAMMER TEST

INTRODUCTION

Name of work: Package No.4 (Package consists of 3 works)

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP

Contractor: Sri. Chidananda Murthy R.

Job Code : 009-23-000002

TEST CONDUCTED: To assess the surface hardness and estimate in-situ strength of surface concrete, the test was conducted using Rebound Hammer as per the guidelines of Indian Standards specification IS: 13311 – (Part II) – 1992 RA: 2018.

TABLE – 2

REBOUND HAMMER TEST RESULTS

Site Location : Venkateshwara temple road

Date of Test : 24.05.2023

Grade of Concrete : (M-20)

Technical Reference : IS: 13311 (Part II) – 1992 RA: 2018

Technical Reference : IS: 13311 (Part II) – 1992 RA: 2018							
Sl. No.	Member Identification	REBOUND HAMMER TEST					Probable Compressive Strength in N/mm ²
		Position			Rebound Number	Average rebound number	
		(Horizontal) (0°) →	(vertical) (+90°) ↑	(vertical) (-90°) ↓			
1.	Culvert Slab-M20 grade			✓	27	25.5	23.0
2.				✓	26		
3.				✓	25		
4.				✓	27		
5.				✓	24		
6.				✓	24		

Average of 6 values

Note: The Rebound Hammer test gives Surface Strength

As per IS: 13311 (part-2) : 1992 RA: 2018 clause 8.1, the estimation of strength of concrete by Rebound Hammer method cannot be held to be very accurate and probable accuracy of prediction of concrete strength in a structure is ± 25 percent.

NON-DESTRUCTIVE TEST REPORT REBOUND HAMMER TEST

INTRODUCTION

Name of work: Package No.4 (Package consists of 3 works)

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP

Contractor: Sri. Chidananda Murthy R.

Job Code : 009-23-000002

TEST CONDUCTED: To assess the surface hardness and estimate in-situ strength of surface concrete, the test was conducted using Rebound Hammer as per the guidelines of Indian Standards specification IS: 13311 – (Part II) – 1992 RA: 2018.

TABLE – 2

REBOUND HAMMER TEST RESULTS

Site Location : 6th Block BEL Layout
Date of Test : 24.05.2023
Grade of Concrete : (M-20)
Technical Reference : IS: 13311 (Part II) – 1992 RA: 2018

Technical Reference : IS. 15511 (Part II) 1992		REBOUND HAMMER TEST					Probable Compressive Strength in N/mm ²
Sl. No	Member Identification	Position			Rebound Number	Average rebound number	
		(Horizontal) (0°) →	(vertical) (+90°) ↑	(vertical) (-90°) ↓			
1.	Culvert Slab-M20 grade			✓	24	24.5	21
2.				✓	25		
3.				✓	23		
4.				✓	24		
5.				✓	25		
6.				✓	26		

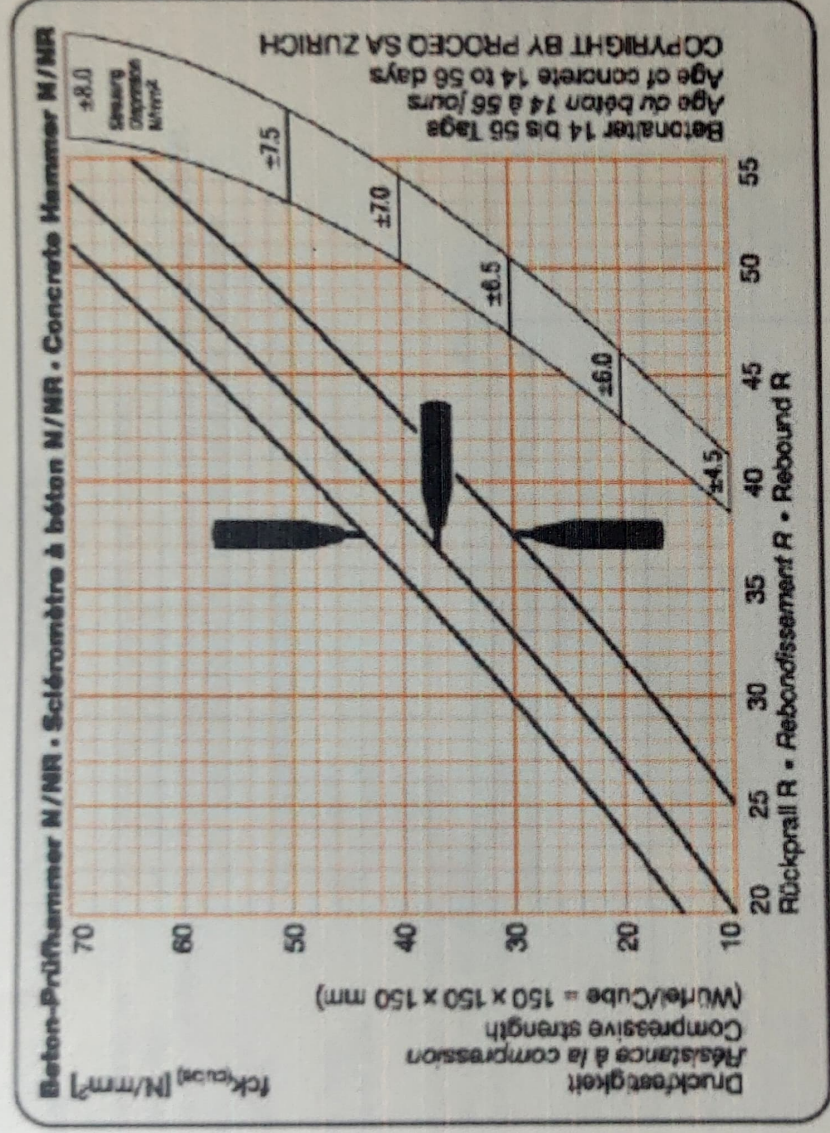
Average of 6 values

Note: The Rebound Hammer test gives Surface Strength

As per IS: 13311 (part-2) : 1992 RA: 2018 clause 8.1, the estimation of strength of concrete by Rebound Hammer method cannot be held to be very accurate and probable accuracy of prediction of concrete strength in a structure is ± 25 percent.



Transheight Consultant Pvt Ltd



Rebound Hammer Graph

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Location: Durgaparameshwari at entrance

Test Date: 25.05.2023
Type of Mix: BC Core

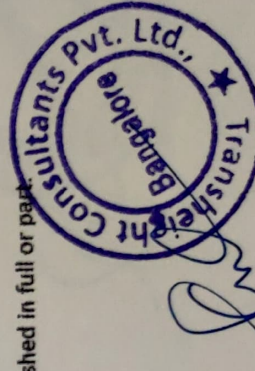
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	Cumulative Weight Retained	872 gms		Requirements as per MORTH Specification Table 500.17
			Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	34.01	34.01	3.90	96.10	90 - 100
9.5	146.50	180.50	20.70	79.30	70-88
4.75	183.99	364.50	41.80	58.20	53-71
2.36	64.53	429.02	49.20	50.80	42-58
1.18	97.66	526.69	60.40	39.60	34-48
0.6	48.83	575.52	66.00	34.00	26-38
0.3	117.72	693.24	79.50	20.50	18-28
0.15	48.83	742.07	85.10	14.90	12-20
0.075	68.89	810.96	93.00	7.00	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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Technical Manager:

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Location Durgaparameshwari house no oppo #898

Test Date: 25.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE:

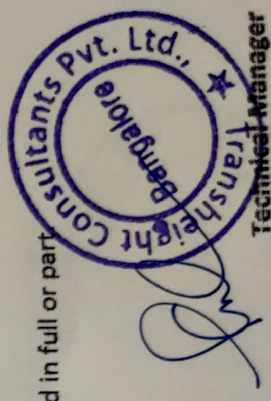
SIEVE SIZE in mm	Weight Retained in gm	880 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	32.56	32.56	3.70	90 - 100
9.5	159.28	191.84	21.80	70-88
4.75	131.12	322.96	36.70	53-71
2.36	91.52	414.48	47.10	42-58
1.18	91.52	506.00	57.50	34-48
0.6	104.72	610.72	69.40	26-38
0.3	71.28	682.00	77.50	18-28
0.15	72.16	754.16	85.70	12-20
0.075	73.92	828.08	94.10	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H

Specification

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TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

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Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Location Durgaparameshwari house no oppo #897/1

Test Date: 25.05.2023

Type of Mix: BC Core

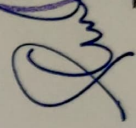
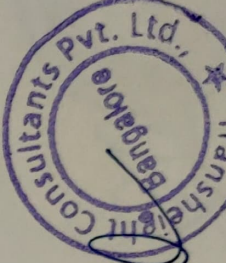
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	951 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	52.31	52.31	5.50	90 - 100
9.5	167.38	219.68	23.10	70-88
4.75	149.31	368.99	38.80	53-71
2.36	108.41	477.40	50.20	42-58
1.18	82.74	560.14	58.90	34-48
0.6	78.93	639.07	67.20	26-38
0.3	109.37	748.44	78.70	18-28
0.15	54.21	802.64	84.40	12-20
0.075	89.39	892.04	93.80	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager:

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Location: 6th block BEL layout opp to park no 4

Test Date: 25.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	854 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	53.80	53.80	6.30	90 - 100
9.5	141.76	195.57	22.90	70-88
4.75	99.06	294.63	34.50	53-71
2.36	156.28	450.91	52.80	42-58
1.18	61.49	512.40	60.00	34-48
0.6	74.30	586.70	68.70	26-38
0.3	46.97	633.67	74.20	18-28
0.15	87.11	720.78	84.40	12-20
0.075	78.57	799.34	93.60	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H

Specification

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TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

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Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 6th block BEL layout opp #138

Test Date: 25.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

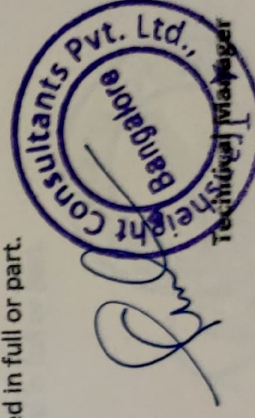
SIEVE SIZE in mm	Weight Retained in gm	Cumulative Weight Retained	924 gms		Requirements as per MORTH Specification Table 500.17
			Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	37.88	37.88	4.10	95.90	90 - 100
9.5	154.31	192.19	20.80	79.20	70-88
4.75	108.11	300.30	32.50	67.50	53-71
2.36	219.91	520.21	56.30	43.70	42-58
1.18	8.32	528.53	57.20	42.80	34-48
0.6	52.67	581.20	62.90	37.10	26-38
0.3	132.13	713.33	77.20	22.80	18-28
0.15	62.83	776.16	84.00	16.00	12-20
0.075	97.02	873.18	94.50	5.50	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H

Specification

Note:

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TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 6th block BEL ayout opp to #135

Test Date: 25.05.2023

Type of Mix: BC Core

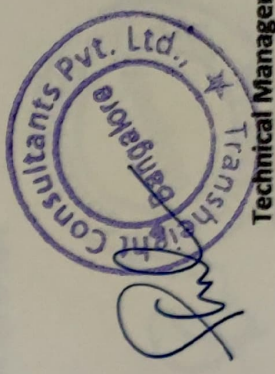
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	1056 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	33.79	33.79	3.20	90 - 100
9.5	196.42	230.21	21.80	70-88
4.75	151.01	381.22	36.10	53-71
2.36	165.79	547.01	51.80	42-58
1.18	43.30	590.30	55.90	34-48
0.6	147.84	738.14	69.90	26-38
0.3	63.36	801.50	75.90	18-28
0.15	98.21	899.71	85.20	12-20
0.075	91.87	991.58	93.90	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Location: Defence layout opp to site #217

Test Date: 25.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	928 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	38.05	38.05	4.10	90 - 100
9.5	154.98	193.02	20.80	70-88
4.75	108.58	301.60	32.50	53-71
2.36	220.86	522.46	56.30	42-58
1.18	8.35	530.82	57.20	34-48
0.6	52.90	583.71	62.90	26-38
0.3	132.70	716.42	77.20	18-28
0.15	63.10	779.52	84.00	12-20
0.075	97.44	876.96	94.50	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: Defence layout opp to site #213

Test Date: 25.05.2023

Type of Mix: BC Core

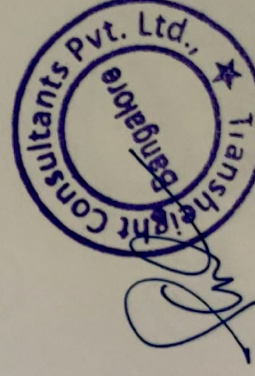
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	869 gms			Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	44.32	44.32	5.10	94.90	90 - 100
9.5	154.68	199.00	22.90	77.10	70-88
4.75	115.58	314.58	36.20	63.80	53-71
2.36	161.63	476.21	54.80	45.20	42-58
1.18	49.53	525.75	60.50	39.50	34-48
0.6	55.53	581.27	66.89	33.11	26-38
0.3	73.95	655.23	75.40	24.60	18-28
0.15	90.38	745.60	85.80	14.20	12-20
0.075	67.78	813.38	93.60	6.40	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: Defence layout opp to site #207

Test Date: 25.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	968 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	33.88	33.88	3.50	90 - 100
9.5	166.50	200.38	20.70	70-88
4.75	130.68	331.06	34.20	53-71
2.36	170.37	501.42	51.80	42-58
1.18	66.79	568.22	58.70	34-48
0.6	85.18	653.40	67.50	26-38
0.3	99.70	753.10	77.80	18-28
0.15	65.82	818.93	84.60	12-20
0.075	80.34	899.27	92.90	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 20th cross school entrance, oppo to HMT layout

Test Date: 25.05.2023

Type of Mix: BC Core

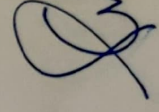
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	Cumulative Weight Retained	899 gms		Requirements as per MORTH Specification Table 500.17
			Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	47.65	47.65	5.30	94.70	90 - 100
9.5	130.36	178.00	19.80	80.20	70-88
4.75	167.21	345.22	38.40	61.60	53-71
2.36	81.81	427.03	47.50	52.50	42-58
1.18	114.17	541.20	60.20	39.80	34-48
0.6	54.84	596.04	66.30	33.70	26-38
0.3	89.90	685.94	76.30	23.70	18-28
0.15	67.43	753.36	83.80	16.20	12-20
0.075	91.70	845.06	94.00	6.00	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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Bangalore
Transheight Consultants Pvt. Ltd.,
Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location 20th cross road entrance HMT layout

/Land Mark:

Test Date: 25.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	1029 gms			Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	48.36	48.36	4.70	95.30	90 - 100
9.5	173.90	222.26	21.60	78.40	70-88
4.75	196.54	418.80	40.70	59.30	53-71
2.36	53.51	472.31	45.90	54.10	42-58
1.18	116.28	588.59	57.20	42.80	34-48
0.6	103.93	692.52	67.30	32.70	26-38
0.3	108.05	800.56	77.80	22.20	18-28
0.15	78.20	878.77	85.40	14.60	12-20
0.075	93.64	972.41	94.50	5.50	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th cross NTI entrance #283

Test Date: 25.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	934 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	36.43	36.43	3.90	90 - 100
9.5	127.96	164.38	17.60	70-88
4.75	203.61	368.00	39.40	53-71
2.36	105.54	473.54	50.70	42-58
1.18	100.97	574.41	61.50	34-48
0.6	48.57	622.98	66.70	26-38
0.3	84.99	707.97	75.80	18-28
0.15	73.79	781.76	83.70	12-20
0.075	84.99	866.75	92.80	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H

Specification

Note:

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TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: 5th cross NTI entrance opp to #84/A

Test Date: 25.05.2023

Type of Mix: BC Core

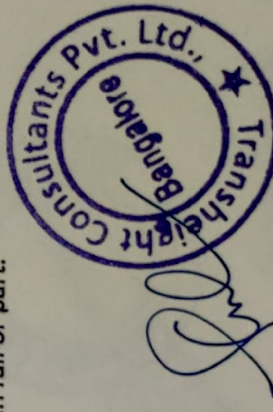
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	1001 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	63.06	63.06	6.30	90 - 100
9.5	133.13	196.20	19.60	70-88
4.75	172.17	368.37	36.80	53-71
2.36	147.15	515.52	51.50	42-58
1.18	84.08	599.60	59.90	34-48
0.6	73.07	672.67	67.20	26-38
0.3	104.10	776.78	77.60	18-28
0.15	70.07	846.85	84.60	12-20
0.075	85.09	931.93	93.10	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: 5th cross NTI entrance opp to #134

Test Date: 25.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	882 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	41.45	41.45	4.70	90 - 100
9.5	102.31	143.77	16.30	70-88
4.75	207.27	351.04	39.80	53-71
2.36	79.38	430.42	48.80	42-58
1.18	104.08	534.49	60.60	34-48
0.6	55.57	590.06	66.90	26-38
0.3	74.09	664.15	75.30	18-28
0.15	87.32	751.46	85.20	12-20
0.075	66.15	817.61	92.70	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: 8th main opp to Sai Baba temple

Test Date: 25.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

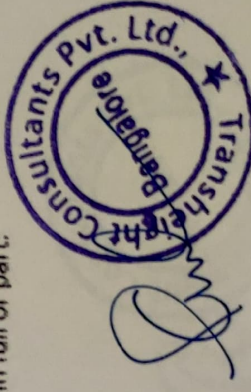
SIEVE SIZE in mm	Weight Retained in gm	1000 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	34.00	34.00	3.40	90 - 100
9.5	161.00	195.00	19.50	70-88
4.75	168.00	363.00	36.30	53-71
2.36	144.00	507.00	50.70	42-58
1.18	112.00	619.00	61.90	34-48
0.6	75.00	694.00	69.40	26-38
0.3	78.00	772.00	77.20	18-28
0.15	55.00	827.00	82.70	12-20
0.075	118.00	945.00	94.50	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H

Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location

8th main Sai baba temple road opp to # 751

/Land Mark:

Test Date: 26.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

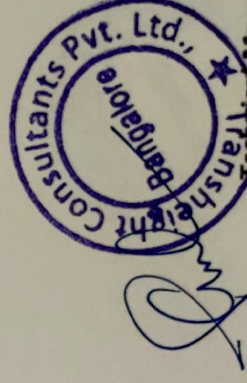
SIEVE SIZE in mm	Weight Retained in gm	932 gms			Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	38.21	38.21	4.10	95.90	90 - 100
9.5	184.03	202.24	21.70	78.30	70-88
4.75	145.39	347.64	37.30	62.70	53-71
2.36	88.54	436.18	46.80	53.20	42-58
1.18	106.25	542.42	58.20	41.80	34-48
0.6	89.47	631.90	67.80	32.20	26-38
0.3	78.29	710.18	76.20	23.80	18-28
0.15	86.68	796.86	85.50	14.50	12-20
0.075	71.76	868.62	93.20	6.80	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H

Specification

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Transheight Consultants Pvt. Ltd.,
Bangalore
Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client:

Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore97

Name of Work:

PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor:

Sri. Chidananda Murthy R.

Contractor Address:

No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC:

Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location

8th main road Naryana school ,opp BWSSB

/Land Mark:

Test Date:

26.05.2023

Type of Mix:

BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	1049 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	54.55	54.55	5.20	90 - 100
9.5	139.52	194.07	18.50	70-88
4.75	219.24	413.31	39.40	53-71
2.36	97.56	510.86	48.70	42-58
1.18	79.72	590.59	56.30	34-48
0.6	123.78	714.37	68.10	26-38
0.3	81.82	796.19	75.90	18-28
0.15	88.12	884.31	84.30	12-20
0.075	103.85	988.16	94.20	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: 8th main road Naryana school opp to # 37

Test Date: 26.05.2023

Type of Mix: BC Core

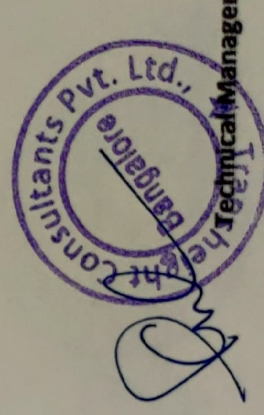
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	1045.5 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	% Passing	
19	0	0.00	100.00	100
13.2	30.32	30.32	97.10	90 - 100
9.5	151.60	181.92	82.60	70-88
4.75	187.14	369.06	64.70	53-71
2.36	120.23	489.29	53.20	42-58
1.18	118.14	607.44	41.90	34-48
0.6	89.91	697.35	33.30	26-38
0.3	120.23	817.58	21.80	18-28
0.15	75.28	892.86	14.60	12-20
0.075	76.32	969.18	7.30	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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Transheight Consultants Pvt. Ltd.,
Bangalore
Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location 8th main road to naryana school opp to # 135 (vidmahe enclave)

/Land Mark:

Test Date: 26.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	892 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	42.82	42.82	4.80	90 - 100
9.5	130.23	173.05	19.40	70-88
4.75	137.37	310.42	34.80	53-71
2.36	123.10	433.51	48.60	42-58
1.18	75.82	509.33	57.10	34-48
0.6	99.90	609.24	68.30	26-38
0.3	79.39	688.62	77.20	18-28
0.15	64.22	752.85	84.40	12-20
0.075	82.06	834.91	93.60	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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- This report without prior written approval should not be reproduced or published in full or part.



Transheight Consultants Pvt. Ltd., Bangalore
Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client:

Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work:

PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor:

Sri. Chidananda Murthy R.

Contractor Address:

No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC:

Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location

Ventkateshwara temple opp

/Land Mark:

Test Date: 26.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

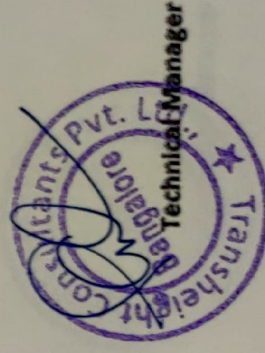
SIEVE SIZE in mm	Weight Retained in gm	1065 gms			Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	55.38	55.38	5.20	94.80	90 - 100
9.5	132.06	187.44	17.60	82.40	70-88
4.75	166.14	353.58	33.20	66.80	53-71
2.36	184.25	537.83	50.50	49.50	42-58
1.18	93.72	631.55	59.30	40.70	34-48
0.6	77.75	709.29	66.60	33.40	26-38
0.3	96.92	806.21	75.70	24.30	18-28
0.15	112.89	919.10	86.30	13.70	12-20
0.075	83.07	1002.17	94.10	5.90	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H

Specification

Note:

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TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location

/Land Mark: Venkateshwara temple road opp to #871/1

Test Date: 26.05.2023

Type of Mix: BC Core

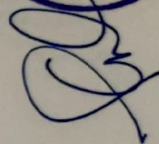
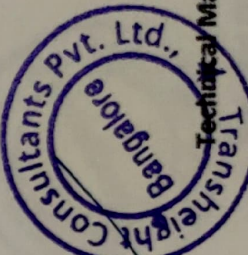
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	915 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	34.77	34.77	3.80	90 - 100
9.5	143.66	178.43	19.50	70-88
4.75	142.74	321.17	35.10	53-71
2.36	125.36	446.52	48.80	42-58
1.18	74.12	520.64	56.90	34-48
0.6	111.63	632.27	69.10	26-38
0.3	75.95	708.21	77.40	18-28
0.15	70.45	778.67	85.10	12-20
0.075	71.37	850.04	92.90	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: Ventkateshwara temple road opp to #871/1

Test Date: 26.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	907 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	39.91	39.91	4.40	90 - 100
9.5	117.91	157.82	17.40	70-88
4.75	146.93	304.75	33.60	53-71
2.36	156.00	460.76	50.80	42-58
1.18	81.63	542.39	59.80	34-48
0.6	72.56	614.95	67.80	26-38
0.3	73.47	688.41	75.90	18-28
0.15	77.10	765.51	84.40	12-20
0.075	95.24	860.74	94.90	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H
Specification

Note:

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: Thindlu Govt Hospital opp road to Nagama's house

Test Date: 26.05.2023

Type of Mix: BC Core

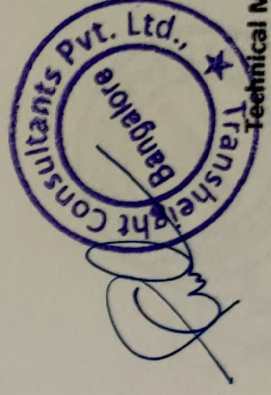
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	1023 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	% Passing	
19	0	0.00	100.00	100
13.2	35.81	35.81	96.50	90 - 100
9.5	147.31	183.12	82.10	70-88
4.75	142.20	325.31	68.20	53-71
2.36	192.32	517.64	49.40	42-58
1.18	69.56	587.20	42.60	34-48
0.6	110.48	697.69	31.80	26-38
0.3	79.79	777.48	24.00	18-28
0.15	79.79	857.27	16.20	12-20
0.075	106.39	963.67	5.80	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)
Contractor: Sri: Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: Thindlu Govt Hospital opp to road # 36

Test Date: 26.05.2023

Type of Mix: BC Core

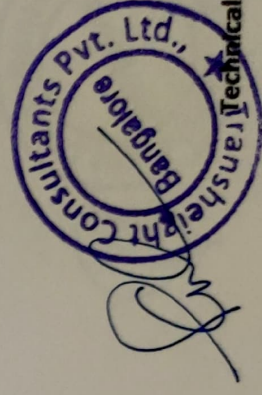
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	880 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	44.88	44.88	5.10	90 - 100
9.5	101.20	146.08	16.60	70-88
4.75	190.08	336.16	38.20	53-71
2.36	82.72	418.88	47.60	42-58
1.18	113.52	532.40	60.50	34-48
0.6	58.08	590.48	67.10	26-38
0.3	95.04	685.52	77.90	18-28
0.15	66.00	751.52	85.40	12-20
0.075	67.76	819.28	93.10	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: 1st main Road Bk Layout opp to #177

Test Date: 26.05.2023

Type of Mix: BC Core

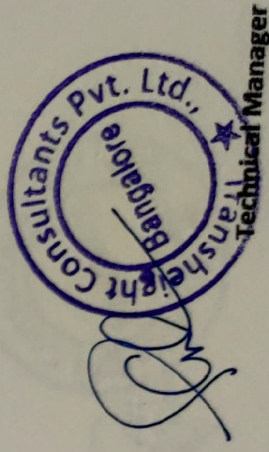
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	Cumulative Weight Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	38.42	38.42	4.10	95.90	90 - 100
9.5	137.74	176.16	18.80	81.20	70-88
4.75	211.76	387.92	41.40	58.60	53-71
2.36	82.46	470.37	50.20	49.80	42-58
1.18	67.46	537.84	57.40	42.60	34-48
0.6	88.08	625.92	66.80	33.20	26-38
0.3	82.46	708.37	75.60	24.40	18-28
0.15	76.83	785.21	83.80	16.20	12-20
0.075	84.33	869.54	92.80	7.20	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: 1st main Road Bk Layout opp to #212

Test Date: 26.05.2023

Type of Mix: BC Core

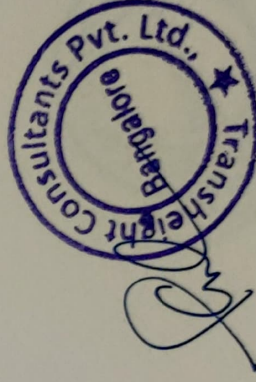
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	908 gms			Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	39.04	39.04	4.30	95.70	90 - 100
9.5	113.50	152.54	16.80	83.20	70-88
4.75	197.94	350.49	38.60	61.40	53-71
2.36	86.26	436.75	48.10	51.90	42-58
1.18	112.59	549.34	60.50	39.50	34-48
0.6	88.08	637.42	70.20	29.80	26-38
0.3	69.92	707.33	77.90	22.10	18-28
0.15	56.30	763.63	84.10	15.90	12-20
0.075	86.26	849.89	93.60	6.40	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS

CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location

/Land Mark: Thindlu Govt Hospital opp to chicken shop

Test Date: 26.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

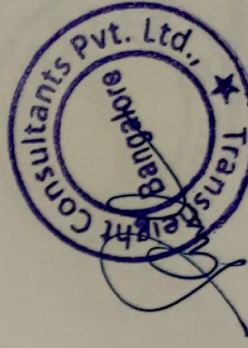
SIEVE SIZE in mm	Weight Retained in gm	924 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	40.66	40.66	4.40	90 - 100
9.5	143.22	183.88	19.90	70-88
4.75	141.37	325.25	35.20	53-71
2.36	124.74	449.99	48.70	42-58
1.18	85.01	535.00	57.90	34-48
0.6	80.39	615.38	66.60	26-38
0.3	101.64	717.02	77.60	18-28
0.15	75.77	792.79	85.80	12-20
0.075	73.92	866.71	93.80	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H

Specification

Note:

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location

Ananda layout opp to #114

/Land Mark:

Test Date: 26.05.2023

Type of Mix: BC Core

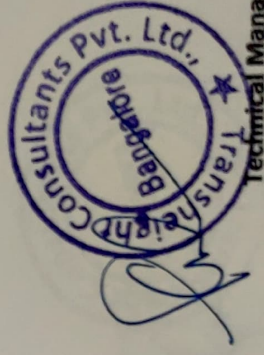
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	950 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	50.35	50.35	5.30	90 - 100
9.5	150.10	200.45	21.10	70-88
4.75	146.30	346.75	36.50	53-71
2.36	134.90	481.65	50.70	42-58
1.18	63.65	545.30	57.40	34-48
0.6	82.65	627.95	66.10	26-38
0.3	84.55	712.50	75.00	18-28
0.15	84.55	797.05	83.90	12-20
0.075	95.95	893.00	94.00	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS

CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location

Ananda layout opp to #16

/Land Mark:

Test Date: 26.05.2023

Type of Mix: BC Core

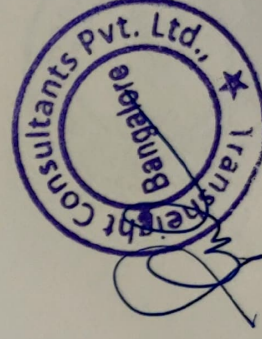
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	923 gms			Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	36.00	36.00	3.90	96.10	90 - 100
9.5	123.68	159.68	17.30	82.70	70-88
4.75	161.53	321.20	34.80	65.20	53-71
2.36	162.45	483.65	52.40	47.60	42-58
1.18	69.23	552.88	59.90	40.10	34-48
0.6	51.69	604.57	65.50	34.50	26-38
0.3	98.76	703.33	76.20	23.80	18-28
0.15	58.15	761.48	82.50	17.50	12-20
0.075	110.76	872.24	94.50	5.50	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location /Land Mark: Parvathama Layout oppo to #87

Test Date: 26.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	972 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	50.54	50.54	5.20	90 - 100
9.5	118.58	169.13	17.40	70-88
4.75	173.02	342.14	35.20	53-71
2.36	138.02	480.17	49.40	42-58
1.18	85.54	565.70	58.20	34-48
0.6	76.79	642.49	66.10	26-38
0.3	111.78	754.27	77.60	18-28
0.15	61.24	815.51	83.90	12-20
0.075	90.40	905.90	93.20	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location Parvathama Layout oppo to #4

/Land Mark:

Test Date: 26.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

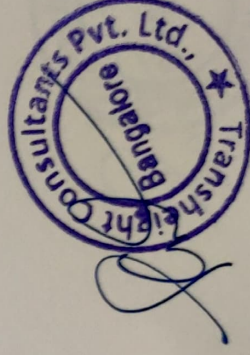
SIEVE SIZE in mm	Weight Retained in gm	935 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	35.53	35.53	3.80	90 - 100
9.5	111.27	146.80	15.70	70-88
4.75	165.50	312.29	33.40	53-71
2.36	123.42	435.71	46.60	42-58
1.18	129.97	565.68	60.50	34-48
0.6	72.00	637.67	68.20	26-38
0.3	67.32	704.99	75.40	18-28
0.15	89.76	794.75	85.00	12-20
0.075	73.87	868.62	92.90	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H

Specification

Note:

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Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location Ananda layout opp to Srivari Building

/Land Mark:

Test Date: 26.05.2023

Type of Mix: BC Core

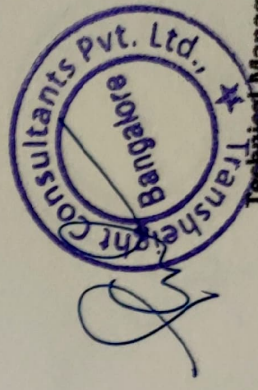
GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	934 gms		Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	
19	0	0.00	0.00	100
13.2	54.17	54.17	5.80	90 - 100
9.5	99.00	153.18	16.40	70-88
4.75	144.77	297.95	31.90	53-71
2.36	155.04	452.99	48.50	42-58
1.18	84.99	537.98	57.60	34-48
0.6	107.41	645.39	69.10	26-38
0.3	61.64	707.04	75.70	18-28
0.15	82.19	789.23	84.50	12-20
0.075	86.86	876.09	93.80	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

1. Any correction in the report will make this report invalid.
2. This report without prior written approval should not be reproduced or published in full or part.



Technical Manager

TEST REPORTS FOR GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Executive Engineer, Quality Control Division, Yelahanka Zone, BBMP Bangalore

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakamagar, Bangalore

Chainage/Location

/Land Mark: Parvathama layout oppo to #14

Test Date: 26.05.2023

Type of Mix: BC Core

GRADATION AFTER EXTRACTION TOTAL WEIGHT OF SAMPLE:

SIEVE SIZE in mm	Weight Retained in gm	880 gms			Requirements as per MORTH Specification Table 500.17
		Cumulative Weight Retained	Cumulative % Retained	% Passing	
19	0	0.00	0.00	100.00	100
13.2	42.24	42.24	4.80	95.20	90 - 100
9.5	102.08	144.32	16.40	83.60	70-88
4.75	157.52	301.84	34.30	65.70	53-71
2.36	118.80	420.64	47.80	52.20	42-58
1.18	82.72	503.36	57.20	42.80	34-48
0.6	69.52	572.88	65.10	34.90	26-38
0.3	124.08	696.96	79.20	20.80	18-28
0.15	45.76	742.72	84.40	15.60	12-20
0.075	74.80	817.52	92.90	7.10	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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